

cccgcgcgtg agtgagctct cccccagtc agccaaatga gcctcttcgg gcttctcctg 60  
 gtgacatctg ccctggccgg ccagagacga gggactcagg cggaatccaa cctgagtagt 120  
 aaattccagt tticcagcaa caaggacag aacggagtac aagatcccca gcatgagaga 180  
 attattactg tgtctactaa tggaagtatt cacagcccaa ggtttcccca tacttatcca 240  
 agaaatcggg tcttggtatg gagattagta gcagtagagg aaaatgtatg gatacaactt 300  
 acgtttgatg aaagatttgg gcttgaagac ccagaagatg acatatgcaa gtatgatitit 360  
 gtagaagtig aggaaccacg tgatggaact atattagggc gctgggtgtg ttctgggtact 420  
 gtaccaggaa aacagatttc taaaggaaat caaattagga taagatttgt atctgatgaa 480  
 tattttcctt ctgaaccagg gtctgcacac cactacaaca ttgtcatgcc acaattcaca 540  
 gaagctgtga gtccttcagt gctacccctt tcagctttgc cactggacct gcttaataat 600  
 gctataactg ccttttagtac cttggaagac cttattcgat atcttgaacc agagagatgg 660  
 cagttggact tagaagatct atataggcca acttggcaac ttcttggcaa ggcttttgtt 720  
 ttggaagaa aatccagagt ggtggatctg aaccttctaa cagaggaggt aagatttatc 780  
 agctgcacac ctctgaactt ctcaagtgtc ataagggaag aactaaagag aaccgatacc 840  
 attttctggc caggttgtct cctgggttaa cgctgtgggt ggaactgtgc ctgttgtctc 900  
 cacaattgca atgaatgtca atgtgtccca agcaaaagta ctaaaaata ccacgaggtc 960  
 cttcagttga gaccaagac cgggtgtcagg ggattgcaca aatcaactcac cgacgtggcc 1020  
 ctggagcacc atgaggagtg tgactgtgtg tgcagaggga gcacaggagg atagccgcac 1080  
 caccaccagc agctcttggc caafctgtg cagtgcagtg gctgattcta tttagagaacg 1140  
 tatgcgttat ctccatcctt aatctcagtt gtttgcctca aggaccttc atcttcagga 1200

FIG. 1A

ttacagtgt attctgaaag aggagacatc aaacagaatt aggacttgct caacagctct 1260  
 ttgagagga ggcctaagg acaggagaaa aggtcttcaa tctgggaaag aaaattaaat 1320  
 gttgtattaa atagatcacc agctagtctc agagtcacca tgtacgtatt ccactagctg 1380  
 ggttctgtat ttcagttctt tctatcggc ttagggtaat gtcagtacag gaaaaaaact 1440  
 gtgcaagtga gcacctgatt ccgttgcctt gcttaactct aaagctccat gtcctgggcc 1500  
 taaaatcgta taaaatctgg atttttttt tttttttgc tcatattcac atatgtaaac 1560  
 cagaacattc tatgtactac aaacctgggt tttaaaaagg aactatgttg ctatgaatta 1620  
 aacttgctc rtgctgatag gacagactgg attttctata tttcttatta aaatttctgc 1680  
 cattagaag aagagaacta cattcatggt ttggaagaga taaacctgaa aagaagagtg 1740  
 gccttaccct cactttatcg ataagtact ttatttggtt cattgtgtac atttttatat 1800  
 tctccttttg acattataac tgttggttt tctaactctg ttaaatatat ctatttttac 1860  
 caaaggatatt taatattctt ttttatgaca acttagatca actattttta gcttggtaaa 1920  
 tttttctaaa cacaattggt atagccagag gaacaaagat ggatataaaa atattgttgc 1980  
 cctggacaaa aatacatgta tntccatccc ggaatggctg tagagttgga ttaaacctgc 2040  
 attttaaaaa acctgaattg ggaanggaon ttggttaagg ttggccaaanc ttttttgaaa 2100  
 ataattaa 2108

FIG. 1B

Met 1	Ser	Leu	Phe	Gly 5	Leu	Leu	Leu	Cal	Thr 10	Ser	Ala	Leu	Ala	Gly 15	Gln
Arg	Arg	Gly	Thr 20	Gln	Ala	Glu	Ser	Asn 25	Leu	Ser	Ser	Lys	Phe 30	Gln	Phe
Ser	Ser	Asn 35	Lys	Glu	Gln	Asn	Gly 40	Val	Gln	Asp	Pro	Gln 45	His	Glu	Arg
Ile 50	Ile	Thr	Val	Ser	Thr	Asn 55	Gly	Ser	Ile	His	Ser 60	Pro	Arg	Phe	Pro
His 65	Thr	Tyr	Pro	Arg	Asn 70	Thr	Val	Leu	Val	Trp 75	Arg	Leu	Val	Ala	Val 80
Glu	Glu	Asn	Val	Trp 85	Ile	Gln	Leu	Thr	Phe 90	Asp	Glu	Arg	Phe	Gly 95	Leu
Glu	Asp	Pro	Glu 100	Asp	Asp	Ile	Cys	Lys 105	Gly	Asp	Phe	Val	Glu 110	Val	Glu
Glu	Pro	Ser 115	Asp	Gly	Thr	Ile 120	Leu	Gly	Arg	Trp	Cys	Gly 125	Ser	Gly	Thr
Val 130	Pro	Gly	Lys	Gln	Ile	Ser 135	Lys	Gly	Asn	Gln	Ile 140	Arg	Ile	Arg	Phe
Val 145	Ser	Asp	Glu	Tyr	Phe 150	Pro	Ser	Glu	Pro	Gly 155	Phe	Cys	Ile	His	Tyr 160
Asn	Ile	Val	Met	Pro 165	Gln	Phe	Thr	Glu	Ala 170	Val	Ser	Pro	Ser	Val 175	Leu
Pro	Pro	Ser	Ala 180	Leu	Pro	Leu	Asp	Leu 185	Leu	Asn	Asn	Ala	Ile 190	Thr	Ala
Phe	Ser	Thr 195	Leu	Glu	Asp	Leu 200	Ile	Arg	Tyr	Leu	Glu 205	Pro	Glu	Arg	Trp
Gln 210	Leu	Asp	Leu	Glu	Asp 215	Leu	Tyr	Arg	Pro	Thr 220	Trp	Gln	Leu	Leu	Gly
Lys 225	Ala	Phe	Val	Phe 230	Gly	Arg	Lys	Ser	Arg	Val 235	Val	Asp	Leu	Asn	Leu 240
Leu	thr	Glu	Glu 245	Val	Arg	Leu	Tyr	Ser	Cys 250	Thr	Pro	Arg	Asn	Phe 255	Ser
Val	Ser	Ile 260	Arg	Glu	Glu	Leu	Lye	Arg 265	Thr	Asp	Thr	Ile	Phe 270	Trp	Pro
Gly	Cys	Leu 275	Leu	Val	Lys	Arg	Cys 280	Gly	Gly	Asn	Cys	Ala 285	Cys	Cys	Leu

FIG. 2A

His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Ser	Lys	Val	Thr	Lys	Lys
	290					295					300				
Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr	Gly	Cal	Arg	Gly	Leu
305					310					315					320
His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His	His	Glu	Glu	Cys	Asp
				325					330					335	
Cys	Val	Cys	Arg	Gly	Ser	Thr	Gly	Gly							
			340					345							

FIG. 2B

cgggtaatt ccagttttcc agcaacaagg aacagaacgg agtacaagat cctcagcatg 60  
 agagaattat tacttgtctt actaatggaa gtattcacag cccaagggtt cctcatactt 120  
 atccaagaaa tacgggtctt gtatggagat tagtagcagt agaggaaaat gtatggatag 180  
 aacttacgtt tgatgaaaga tttgggcttg aagaccaga agatgacata tgcaagtatg 240  
 attttgtaga agttgaggaa cccagtgatg gaactatatt agggcgctgg tgtgggtctg 300  
 gtactgtacc aggaaaacag atttctaag gaaatcaaat taggataaga tttgtatctg 360  
 atgaatatTT tccttctgaa ccagggttct gcatccacta caacattgtc atgccacaat 420  
 tcacagaagc tgtgagtcct tcagtgtac ccccttcagc tttgccactg gacctgctta 480  
 ataatgctat aactgccttt agtaccttg aagacctat tcgatatctt gaaccagaga 540  
 gatggcagtt ggacttagaa gatctatata ggccaacttg gcaacttctt ggcaaggctt 600  
 ttgttttttg aagaaaatcc agagtggtag atctgaacct tctaacagag gaggttaagat 660  
 tatacagctg cacacctcgt aacttctcag tgtccataag ggaagaacta aagagaaccg 720  
 ataccatTTT ctggccaggt tgtctcctgg ttaaacgctg tggtaggaac tgtgcctggt 780  
 gtctccacaa ttgcaatgaa tgtcaatgtg tccaagcaa agttactaaa aaataccacg 840  
 aggtccttca gttgagacca aasaccggtg tcaggggatt gcacaaatca ctaccgacg 900  
 tggccctgga gcaccatgag gagtgtgact gtgtgtgtag agggagcaca ggaggatagc 960  
 cgcctacca ccagcagctc ttgccagag ctgtgcagtg cagtggctga ttctattaga 1020  
 gaacgtatgc gttatctcca tccttaatct cagttgtttg cttcaaggac ctttcatctt 1080  
 caggatttac agtgcattct gaaagaggag acatcaaca gaattaggag ttgtgcaaca 1140  
 gctcttttga gaggaggcct aaaggacagg aaaaaggctc ttcaatcgtg gaaagaaaat 1200  
 taaatgttgt attaaataga tcaccagcta gtttcagagt taccatgtat gtattccact 1260  
 agctgggttc tgtatttcag ttctttcgt acggcttagg gtaatgtcag tacaggaaaa 1320  
 aaactgtgca agtgagcacc tgattccgtt gccttgctta actctaaagc tccatgtcct 1380  
 gggcctaaaa tcgtataaaa tctggatttt tttttttttt tttgtcata ttacatatg 1440  
 taaaccagaa cattctatgt actacaacc tggtttttaa aaaggaacta tgttgcctatg 1500  
 aattaaactt gtgtcatgct gataggacag actgga 1536

FIG.3

09052209 051004

Gly	Lys	Phe	Gln	Phe	Ser	Ser	Asn	Lys	Glu	Gln	Asn	Gly	Val	Gln	Asp
1				5					10					15	
Pro	Gln	His	Glu	Arg	Ile	Ile	Thr	Val	Ser	Thr	Asn	Gly	Ser	Ile	His
			20					25					30		
Ser	Pro	Arg	Phe	Pro	His	Thr	Tyr	Pro	Arg	Asn	The	Val	Leu	Val	Trp
		35					40					45			
Arg	Leu	Val	Ala	Val	Glu	Glu	Asn	Val	Trp	Ile	Gln	Leu	Thr	Phe	Asp
	50					55					60				
Glu	Arg	Phe	Gly	Leu	Glu	Asp	Pro	Glu	Asp	Asp	Ile	Cys	Lys	Tyr	Asp
65					70					75					80
Phe	Val	Glu	Val	Glu	Glu	Pro	Ser	Asp	Gly	The	Ile	Leu	Gly	Arg	Trp
				85					90					95	
Cys	Gly	Ser	Gly	Thr	Val	Pro	Gly	Lys	Gln	Ile	Ser	Lys	Gly	Asn	Gln
			100					105					110		
Ile	Arg	Ile	Arg	Phe	Val	Ser	Asp	Glu	Tyr	Phe	Pro	Ser	Glu	Pro	Gly
		115					120					125			
Phe	Cys	Ile	His	Tyr	Asn	Ile	Val	Met	Pro	Gln	Phe	Thr	Glu	Ala	Val
	130					135					140				
Ser	Pro	Ser	Val	Leu	Pro	Pro	Ser	Ala	Leu	Pro	Leu	Asp	Leu	Leu	Asn
145					150					155					160
Asn	Ala	Ile	Thr	Ala	Phe	Ser	Thr	Leu	Glu	Asp	Leu	Ile	Arg	Tyr	Leu
				165					170					175	
Glu	Pro	Glu	Arg	Trp	Gln	Leu	Asp	Leu	Glu	Asp	Leu	Tyr	Arg	Pro	Thr
			180					185					190		
Trp	Gln	Leu	Leu	Glu	Lys	Ala	Phe	Val	Phe	Gly	Arg	Lys	Ser	Arg	Val
		195					200					205			
Val	Asp	Leu	Asn	Leu	Leu	Thr	Glu	Glu	Val	Arg	Leu	Tyr	Ser	Cys	Thr
	210					215					220				
Pro	Arg	Asn	Phe	Ser	Val	Ser	Ile	Arg	Glu	Glu	Leu	Lys	Arg	Thr	Asp
225					230					235					240
the	Ile	Phe	Trp	Pro	Gly	Cys	Leu	Leu	Val	Lys	Arg	Cys	Gly	Gly	Asn
				245					250					255	
Cys	Ala	Cys	Cys	Leu	His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Ser
			260					265					270		
Lys	Val	Thr	Lys	Lys	Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr
		275					280					285			
Gly	Val	Arg	Gly	Leu	His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His
	290					295					300				
His	Glu	Glu	Cys	Asp	Cys	Val	Cys	Arg	Gly	Ser	Thr	Gly	Gly		
305					310					315					

FIG.4

caccctggaga cacagaagag ggctctagga aaaatlttgg atggggatta tgtggaaact 60  
 accctgcgat tctctgctgc cagagccggc caggcgcttc caccgcagcg cagcctttcc 120  
 ccgggctggg ctgagccttg gagtcgtcgc tccccagtg cccgccgcga gtgagccctc 180  
 gccccagtca gccaaatgct cctcctcggc cctcctcggc ctcctcctgc gctggccggc 240  
 caaagaacgg ggactcgggc tgagtccaac ctgagcagca agttgcagct ctccagcgac 300  
 aaggaacaga acggagtga agatccccgg catgagagag ttgtcactat atctggtaat 360  
 gggagcatcc acagcccgaa gtltcctcat acgtacccaa gaaatatggt gctgggtgtg 420  
 agattagtgt cagtagatga tatagtgcgg atccagctga catttgatga gagatttggg 480  
 ctggaagatc cagaagacga tatatgcaag tatgattttg tagaagtiga ggagcccagt 540  
 gatggaagtg ttttaggacg ctgggtgtgt tctgggactg tgccaggaaa gcagacttct 600  
 aaaggaaatc atatcaggat aagatttga tctgatgagt attttccatc tgaacccgga 660  
 ttctgcatcc actacagtat tatcatgcca caagtcacag aaaccacgag tccttcgggtg 720  
 ttgccccctt catctttgtc attggacctg ctcaacaatg ctgtgactgc cttcagtlacc 780  
 ttggaagagc tgattcggta cctagagcca gatcgatggc aggtggactt ggacagcctc 840  
 tacaagccaa catggcagct tttgggcaag gctttcctgt atgggaaaaa aagcaaagt 900  
 gtgaatctga atcctctcaa ggaagaggta aaactctaca gctgcacacc ccggaacttc 960  
 tcagtgtcca tacgggaaga gctaaagagg acagatacca tattctggcc aggttgtttt 1020  
 ctggtaagt gctgtggagg aaattgtgcc tgttgtctcc ataattgcaa tgaatgtcag 1080  
 tgtgtcccac gtaaagttaac aaaaaagtac catgaggctc ttcagttgag accaaaaact 1140  
 ggagtcaagg gattgcataa gtcactcaat gatgtggctc tggaacacca cgaggaaatgt 1200  
 gactgtgtgt gtagaggaaa cgcaggaggg taactgcagc cttcgtagca gcacacgtga 1260  
 gcactggcat tctgtgtacc ccacaagca accttcatec ccaccagcgt tggccgcagg 1320  
 gctctcagct gctgatgctg gctatggtaa agatcttact cgtctccaac caaatctca 1380  
 gttgtttgct tcaatagcct tcccctgcag gacttcaagt gtcttctaaa agaccagagg 1440  
 caccaanagg agtcaatcac aaagcaatgc accg 1474

FIG.5

Met 1	Leu	Leu	Leu	Gly 5	Leu	Leu	Leu	Leu	Thr 10	Ser	Ala	Leu	Ala	Gly 15	Gln
Arg	Thr	Gly	Thr 20	Arg	Ala	Glu	Ser	Asn 25	Leu	Ser	Ser	Lys	Leu 30	Gln	Leu
Ser	Ser	Asp 35	Lys	Glu	Gln	Asn	Gly 40	Val	Gln	Asp	Pro	Arg 45	His	Glu	Arg
Val	Val 50	Thr	Ile	Ser	Gly	Asn 55	Gly	Ser	Ile	His	Ser 60	Pro	Lys	Phe	Pro
His 65	Thr	Tyr	Pro	Arg	Asn 70	Met	Val	Leu	Val	Trp 75	Arg	Leu	Val	Ala	Val 80
Asp	Glu	Asn	Val	Arg 85	Ile	Gln	Leu	Thr	Phe 90	Asp	Glu	Arg	Phe	Gly 95	Leu
Glu	Asp	Pro	Glu 100	Asp	Asp	Ile	Cys	Lys 105	Tyr	Asp	Phe	Val	Glu	Val	Glu
Glu	Pro	Ser 115	Asp	Gly	Ser	Val	Leu 120	Gly	Arg	Trp	Cys	Gly 125	Ser	Gly	Thr
Val 130	Pro	Gly	Lys	Gln	Thr	Ser 135	Lys	Gly	Asn	His	Ile 140	Arg	Ile	Arg	Phe
Val 145	Ser	Asp	Glu	Tyr	Phe 150	Pro	Ser	Glu	Pro	Gly 155	Phe	Cys	Ile	His	Tyr 160
Ser	Ile	Ile	Met	Pro 165	Gln	Val	Thr	Glu	Thr 170	Thr	Ser	Pro	Ser	Val 175	Leu
Pro	Pro	Ser	Ser 180	Leu	Ser	Leu	Asp	Leu 185	Leu	Asn	Asn	Ala	Val 190	Thr	Ala
Phe	Ser	Thr 195	Leu	Glu	Glu	Leu	Ile 200	Arg	Tyr	Leu	Glu	Pro 205	Asp	Arg	Trp
Gln 210	Val	Asp	Leu	Asp	Ser	Leu 215	Tyr	Lys	Pro	Thr	Trp 220	Gln	Leu	Leu	Gly
Lys 225	Ala	Phe	Leu	Tyr	Gly 230	Lys	Lys	Ser	Lys	Val 235	Val	Asn	Leu	Asn	Leu 240
Leu	Lys	Glu	Glu	Val 245	Lys	Leu	Tyr	Ser	Cys 250	Thr	Pro	Arg	Asn	Phe 255	Ser
Val	Ser	Ile	Arg 260	Glu	Glu	Leu	Lys	Arg 265	Thr	Asp	Thr	Ile	Phe 270	Trp	Pro
Gly	Cys	Leu 275	Leu	Val	Lys	Arg	Cys 280	Gly	Gly	Asn	Cys	Ala	Cys	Cys	Leu

FIG. 6A



His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Arg	Lys	Val	Thr	Lys	Lys
	290					295					300				
Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr	Gly	Val	Lys	Gly	Leu
305					310					315					320
His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His	His	Glu	Glu	Cys	Asp
				325					330					335	
Cys	Val	Cys	Arg	Gly	Asn	Ala	Gly	Gly							
			340					345							

FIG. 6B

hPDGF-C	M	S	L	F	G	L	L	V	T	S	A	L	A	G	Q	R	R	G	T	Q	A	E	S	N	L	S	S	K	F	Q	F	S	S	N	K	E	Q	N	G	40	
mPDGF-C	M	L	L	G	L	L	L	L	T	S	A	L	A	G	Q	R	T	G	T	R	E	S	N	L	S	S	K	L	Q	L	S	S	O	K	E	O	N	G	40		
hPDGF-C	V	Q	P	O	H	E	R	L	L	T	V	S	T	N	G	S	I	H	S	P	P	F	P	H	T	Y	F	R	N	T	V	L	V	N	R	L	V	A	V	80	
mPDGF-C	V	Q	D	P	R	M	E	R	V	V	T	I	S	G	N	G	S	T	H	S	R	K	F	P	H	T	Y	F	R	N	M	V	L	V	N	R	L	V	A	V	80
hPDGF-C	F	E	N	V	N	I	Q	L	T	F	D	E	R	F	G	L	E	D	P	E	D	I	C	K	Y	D	F	V	E	V	E	E	P	S	D	G	T	T	S	120	
mPDGF-C	G	E	N	V	R	T	Q	L	T	F	D	E	R	F	G	L	E	D	P	E	D	I	C	E	Y	D	F	V	E	V	E	E	P	S	D	G	S	V	S	120	
hPDGF-C	G	R	W	C	G	S	G	T	V	F	G	K	Q	I	S	K	G	N	O	I	R	I	R	F	V	S	D	E	Y	F	P	S	E	P	G	F	C	I	H	Y	160
mPDGF-C	G	R	W	C	G	S	G	T	V	F	G	K	Q	T	S	K	G	N	H	I	R	I	R	F	V	S	D	E	Y	E	P	S	E	P	G	F	C	I	H	Y	160
hPDGF-C	N	I	V	M	P	Q	F	T	E	A	V	S	P	S	V	L	P	P	S	S	L	P	L	D	L	N	N	A	I	T	A	F	S	T	L	F	D	L	I	200	
mPDGF-C	S	I	T	M	P	Q	V	T	E	T	T	S	P	S	V	L	P	P	S	S	L	S	L	D	L	N	N	A	V	T	A	F	S	T	L	F	D	L	I	200	
hPDGF-C	R	Y	L	E	P	F	R	W	Q	L	P	L	E	O	L	Y	E	F	T	W	Q	L	L	C	K	A	F	V	F	G	R	K	S	R	V	V	D	L	N	L	240
mPDGF-C	R	Y	L	E	P	D	P	W	Q	V	P	L	P	S	L	Y	K	P	T	W	Q	L	L	G	F	A	F	L	Y	G	K	K	S	N	V	V	N	L	N	L	240
hPDGF-C	L	T	E	E	V	R	L	Y	S	C	T	P	R	N	F	S	V	S	I	R	E	E	L	K	R	T	D	T	I	F	W	P	G	G	L	L	V	K	R	C	280
mPDGF-C	L	K	F	F	V	K	L	Y	S	C	T	P	R	N	F	S	V	S	I	R	E	E	L	K	R	T	D	T	I	F	W	P	G	G	L	L	V	K	R	C	280
hPDGF-C	G	G	N	C	A	C	C	L	R	N	C	N	E	C	Q	C	V	P	S	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	R	G	Y	320
mPDGF-C	G	G	N	C	A	C	C	L	R	V	C	N	E	C	Q	C	V	P	R	K	V	T	K	K	Y	H	E	V	L	O	L	R	P	K	T	G	V	R	G	Y	320
hPDGF-C	H	E	S	L	T	D	V	A	L	E	H	H	E	E	C	D	C	V	C	R	G	S	T	G	G																345
mPDGH-C	H	E	S	L	T	D	V	A	L	E	H	H	E	E	C	D	C	V	C	R	G	N	A	G	G																345

FIG.7

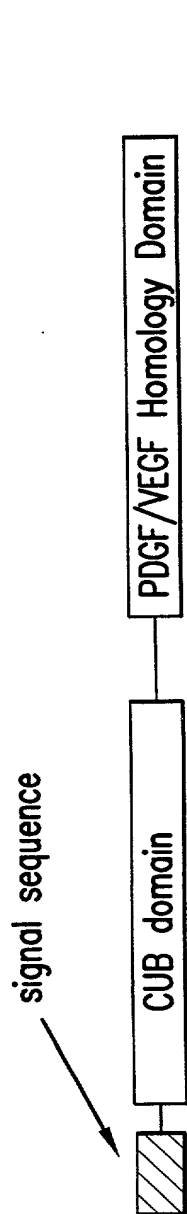


FIG.8

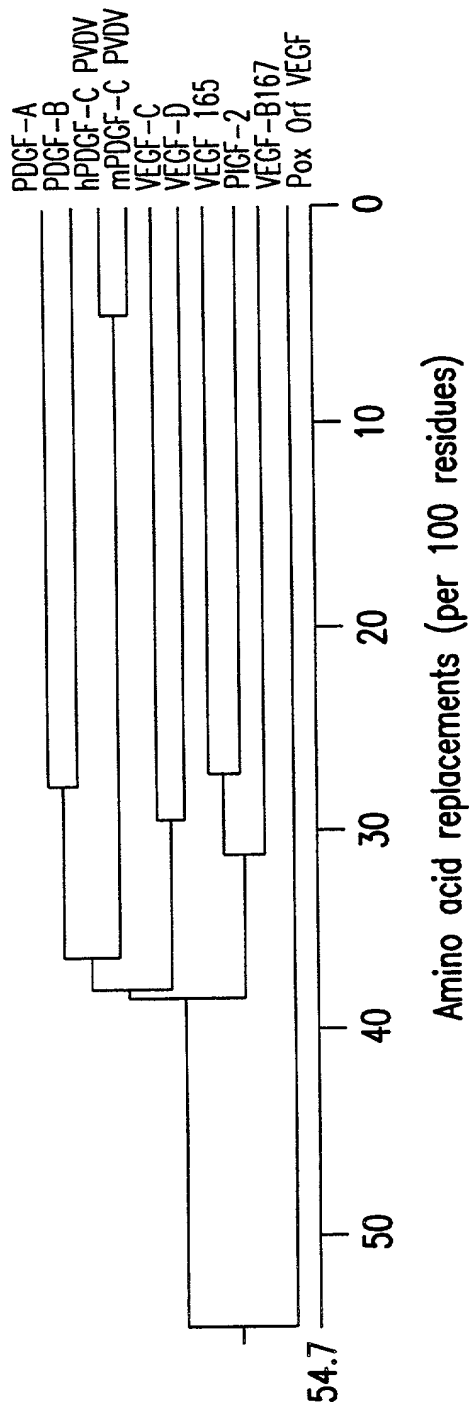


FIG.10

VEGF 165	-----	1
PIGF-2	-----	1
VEGF-B167	-----	1
Pgx Crf VEGF	-----	1
VEGF-C	M H L L G F F S V A C S L L A A A L L P G P R E A P A A A A	30
VEGF-D	----- M Y G E W G M G N I L M M F H	15
PDGF-A	-----	1
PDGF-B	-----	1
hPDGF-C PVDV	-----	1
mPDGF-C PVDV	-----	1
VEGF 165	-----	1
PIGF-2	-----	1
VEGF-B167	-----	1
Pox Orf VEGF	-----	1
VEGF-C	A F E S G L D L S D A E P D A G E A T A Y A S K D L E E Q L	60
VEGF-D	V Y L V O G F R S E H G P Y K D F S F E R S S R S M L E R S	45
PDGF-A	--- M R T L A C L L L L G C G Y L A N V L A E E A E I P	26
PDGF-B	M N R C W A L F L S L C C Y L R L V S A E G D P I P E E L Y	30
hPDGF-C PVDV	--- M P Q F T E A V S P S V L P P S A L P L D L L	23
mPDGF-C PVDV	--- M P Q V T E T T S P S V L P P S A L S L D L L	23
VEGF 165	----- M N F L L S W V E W	10
PIGF-2	----- M P V M R L F P C F	10
VEGF-B167	----- M S P L L	5
Pox Orf VEGF	-----	1
VEGF-C	R S V S S V D E L M T V L Y P E Y W K M Y K C Q L R K G G W	90
VEGF-D	E O O T R A A S S L E E L L O I A H S E D W K L W R C R L K	75
PDGF-A	R E V I E R L A R S Q I H S I R D L Q R L L E I D S V G S E	56
PDGF-B	E M L S D H S I R S F D D L O R L L H G D P - - - - G E E	55
hPDGF-C PVDV	N N A I T A F S T L E D L I R Y L E P E R W Q L D L E D L Y	53
mPDGF-C PVDV	N N A V T A F S T L E E L I R Y L E P D R W Q V D L D S L Y	53
VEGF 165	S L A L L L Y L H H A K W S Q A A P M A E G G G Q N H H E V	40
PIGF-2	L Q L L A G L A L P A V P P Q Q W A L S A G N G S S E V E V	40
VEGF-B167	R R L L L A A L L Q L A P A Q A P V S Q P D A P G H Q R K V	35
Pox Orf VEGF	--- M K L L V G I L V A V C L H Q Y L L N A D S N T	24
VEGF-C	Q H N R E Q A N L N S R T E E T I K F A A A H Y N T E I - L	119
VEGF-D	L K S L A S M D S R S A S H R S T R F A A T F Y D T E T - L	104
PDGF-A	D S L D T S L R A H G V H - - A I K H V P E K R P L R I R R	84
PDGF-B	D G A E L D L N M T R S H S G G E L E S L A R G R R S L G S	85
hPDGF-C PVDV	R P T W Q L L G K A F V F G R K S R - - - - - V V D L	75
mPDGF-C PVDV	K P T W Q L L G K A F L Y G K K S K - - - - - V V N L	75

FIG. 9A

VEGF 165	V	K	F	M	D	V	Y	O	R	S	Y	C	H	P	I	E	T	L	V	D	I	F	Q	E	Y	P	D	E	I	E	70
PIGF-2	V	P	F	Q	E	V	W	G	R	S	Y	C	R	A	L	E	R	L	V	D	V	V	S	E	Y	P	S	E	V	E	70
VEGF-B167	V	S	W	I	D	V	Y	T	R	A	T	C	Q	P	R	E	V	V	V	P	L	T	V	E	L	M	G	T	V	A	65
Pox Orf VEGF	K	G	W	S	E	V	L	K	G	S	E	C	K	P	R	P	I	V	V	P	V	S	E	T	H	P	E	L	T	S	54
VEGF-C	K	S	I	D	N	E	W	R	K	T	Q	C	M	P	R	E	V	C	I	D	V	G	K	E	F	G	V	A	T	N	149
VEGF-D	K	V	I	D	E	E	W	D	R	T	Q	C	S	P	R	E	T	C	V	E	V	A	S	E	L	G	K	T	T	N	134
PDGF-A	K	R	S	I	E	E	A	V	P	A	V	C	K	T	R	T	V	I	Y	E	I	P	R	S	Q	V	D	P	T	S	114
PDGF-B	L	T	I	A	E	P	A	M	I	A	E	C	K	T	R	T	E	V	F	E	I	S	R	R	L	I	D	R	T	N	115
HPDGF-C PVDV	N	L	L	T	E	E	V	R	L	Y	S	C	T	P	R	N	F	S	V	S	I	-	R	E	E	L	K	R	T	D	104
mPDGF-C PVDV	N	L	L	K	E	E	V	K	L	Y	S	C	T	P	R	N	F	S	V	S	I	-	R	E	E	L	K	R	T	D	104

VEGF 165	Y	I	F	K	-	-	P	S	C	V	P	L	M	R	C	G	G	-	-	-	C	C	N	D	E	G	L	E	C	V	95
PIGF-2	H	M	F	S	-	-	P	S	C	V	S	L	L	R	C	T	G	-	-	-	C	C	G	D	E	D	L	H	C	V	95
VEGF-B167	K	Q	L	V	-	-	P	S	C	V	T	V	Q	R	C	G	G	-	-	-	C	C	P	D	D	G	L	E	C	V	90
Pox Orf VEGF	Q	R	F	N	-	-	P	P	C	V	T	L	M	R	C	G	G	-	-	-	C	C	N	D	E	S	L	E	C	V	79
VEGF-C	T	F	F	K	-	-	P	P	C	V	S	V	Y	R	C	G	G	-	-	-	C	C	N	S	E	G	L	Q	C	M	174
VEGF-D	T	F	F	K	-	-	P	P	C	V	N	V	F	R	C	G	G	-	-	-	C	C	N	E	E	G	V	M	C	M	159
PDGF-A	A	N	F	L	I	W	P	P	C	V	E	V	K	R	C	T	G	-	-	-	C	C	N	T	S	S	V	K	C	Q	141
PDGF-B	A	N	F	L	V	W	P	P	C	V	E	V	Q	R	C	S	G	-	-	-	C	C	N	N	R	N	V	Q	C	R	142
hPDGF-C PVDV	T	I	F	-	-	W	P	G	C	L	L	V	K	R	C	G	G	N	C	A	C	C	L	H	N	C	N	E	C	Q	132
mPDGF-C PVDV	T	I	F	-	-	W	P	G	C	L	L	V	K	R	C	G	G	N	C	A	C	C	L	E	N	C	N	E	C	Q	132

VEGF 165	P	T	E	E	S	N	I	T	M	Q	I	M	R	I	K	-	-	-	P	H	Q	G	Q	-	-	-	-	-	H	I	117
PIGF-2	P	V	E	T	A	N	V	T	M	Q	L	L	K	I	R	-	-	-	S	G	D	R	P	-	-	-	-	S	Y	117	
VEGF-B167	P	T	G	Q	H	Q	V	R	M	Q	I	L	M	I	R	Y	-	-	P	S	S	Q	L	-	-	-	-	-	-	111	
Pox Orf VEGF	P	T	E	E	V	N	V	S	M	E	L	L	G	A	S	G	S	G	S	N	G	M	Q	-	-	-	-	R	L	104	
VEGF-C	N	T	S	T	S	Y	L	S	K	I	L	F	E	I	T	V	-	-	P	L	S	Q	G	-	-	-	-	P	K	197	
VEGF-D	N	T	S	T	S	Y	I	S	K	O	L	F	E	I	S	V	-	-	P	L	T	S	V	-	-	-	-	P	E	182	
PDGF-A	P	S	R	V	H	H	R	S	V	K	V	A	K	V	E	Y	V	R	K	K	P	K	L	-	-	-	-	K	E	166	
PDGF-B	P	T	Q	V	Q	L	R	P	V	Q	V	R	K	L	E	I	V	R	K	K	P	I	F	-	-	-	-	K	K	167	
hPDGF-C PVDV	C	V	P	-	S	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	R	G	L	H	K	S	L	161
mPDGF-C PVDV	C	V	P	-	R	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	K	G	L	H	K	S	L	161

VEGF 165	G	E	M	S	F	L	Q	H	N	K	-	C	E	C	R	P	K	K	-	-	-	-	-	-	-	-	-	-	D	R	136					
PIGF-2	V	E	L	T	F	S	Q	H	V	R	-	C	E	C	R	P	L	R	E	-	-	-	-	-	-	-	-	K	M	K	P	E	142			
VEGF-B167	G	E	M	S	L	E	E	H	S	Q	-	C	E	C	R	P	K	K	K	-	-	-	-	-	-	-	-	D	S	A	V	K	135			
Pox Orf VEGF	S	F	V	E	H	K	K	-	-	-	-	C	D	C	R	P	R	F	T	-	-	-	-	-	-	-	-	T	T	P	123					
VEGF-C	P	V	T	I	S	F	A	N	H	T	S	C	R	C	M	S	K	L	D	-	-	-	-	-	-	-	-	V	Y	R	Q	V	H	S	I	224
VEGF-D	L	V	P	V	K	I	A	N	H	T	G	C	K	C	L	P	T	G	P	-	-	-	-	-	-	-	-	-	R	H	P	Y	S	I	207	
PDGF-A	V	Q	V	R	L	E	E	H	L	E	-	C	A	C	A	T	T	S	L	N	P	D	Y	R	E	E	D	T	G	R	195					
PDGF-B	A	T	V	T	L	E	D	H	L	A	-	C	K	C	E	T	V	A	A	A	R	P	V	T	R	S	P	G	G	S	196					
hPDGF-C PVDV	T	D	V	A	L	E	H	H	E	E	-	C	D	C	V	C	R	G	S	T	G	G	-	-	-	-	-	-	-	-	-	182				
mPDGF-C PVDV	T	D	V	A	L	E	H	H	E	E	-	C	D	C	V	C	R	G	N	A	G	G	-	-	-	-	-	-	-	-	-	182				

FIG. 9B

VEGF 165	A	R	Q	E	N	P	C	G	P	C	S	S	E	R	R	K	H	L	F	V	Q	D	P	Q	T	C	K	C	S	C	166	
PlGF-2	R	P	K	G	R	G	K	R	R	R	E	N	Q	R	P	T	D	C	H	L	C	G	D	A	V	P	R	R				170
VEGF-B167	D	S	P	R	P	L	C	P	R	C	T	Q	H	H	Q	R	P	D	P	R	T	-	-	-	-	C	R	C	R	C	161	
Pox Orf VEGF	T	T	T	R	P	P	R	R	R	R																					133	
VEGF-C	I	R	R	S	L	R	A	T	-	L	P	Q	C	Q	A	A	N	K	T	C	P	T	N	Y	M	W	N	N	H	I	253	
VEGF-D	I	R	R	S	L	O	T	P	E	E	D	E	C	P	H	S	K	K	L	C	P	I	D	M	L	W	D	N	T	K	236	
PDGF-A	P	R	E	S	G	K	K	R	K	R	K	R	L	K	P	T															211	
PDGF-B	Q	E	Q	R	A	K	T	P	Q	T	R	V	T	I	R	T	V	R	V	R	R	P	P	K	G	K	H	R	K	F	225	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	
VEGF 165	K	N	T	D	S	-	R	C	K	A	R	Q	L	E	L	N	E	R	T	C	R	C	D	K	P	R	R					192
PlGF-2																															170	
VEGF-B167	R	R	R	S	F	L	R	C	Q	G	R	G	L	E	L	N	P	D	T	C	R	C	R	K	L	R	R					188
Pox Orf VEGF																															133	
VEGF-C	C	R	C	L	A	Q	E	D	F	M	F	S	S	D	A	G	D	D	S	T	D	G	F	H	D	I	C	G	P	N	283	
VEGF-D	C	K	C	V	L	O	D	E	-	T	P	L	P	G	T	E	D	H	S	Y	L	O	E	P	T	L	C	G	P	H	266	
PDGF-A																															211	
PDGF-B	K	H	T	H	D	K	T	A	L	K	E	T	L	G	A																241	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	
VEGF 165																															192	
PlGF-2																															170	
VEGF-B167																															188	
Pox Orf VEGF																															133	
VEGF-C	K	E	L	D	E	E	T	C	Q	C	V	C	R	A	G	L	R	P	A	S	C	G	P	H	K	E	L	D	R	N	313	
VAGF-D	M	T	F	D	E	D	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	273	
PDGF-A																															211	
PDGF-B																															241	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	
VEGF 165																															192	
PlGF-2																															170	
VEGF-B167																															188	
Pox Orf VEGF																															133	
VEGF-C	S	C	Q	C	V	C	K	N	K	L	F	P	S	Q	C	G	A	N	R	E	F	D	E	N	T	C	Q	C	V	C	343	
VEGF-D	-	C	E	C	V	C	K	A	P	C	P	G	D	L	I	O	H	P	E	N	-	-	-	-	-	C	S	C	F	E	297	
PDGF-A																															211	
PDGF-B																															241	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	

FIG. 9C

VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K R T C P R N Q P L N P G K C A C E C T E S P Q K C L L K G	373
VEGF-D	C K E S L E S C C O K K K I - - - - -	312
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K K F H H Q T C S C Y R R P C T N R Q K A C E P G F S Y S E	403
VEGF-D	- - F H P D T C S C E D R - C P F H T R T C A S R K P A C G	338
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	E V C R C V P S Y W K R P Q M S	419
VEGF-D	K H W R F P K E T R A Q G L Y S O E N P	358
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182

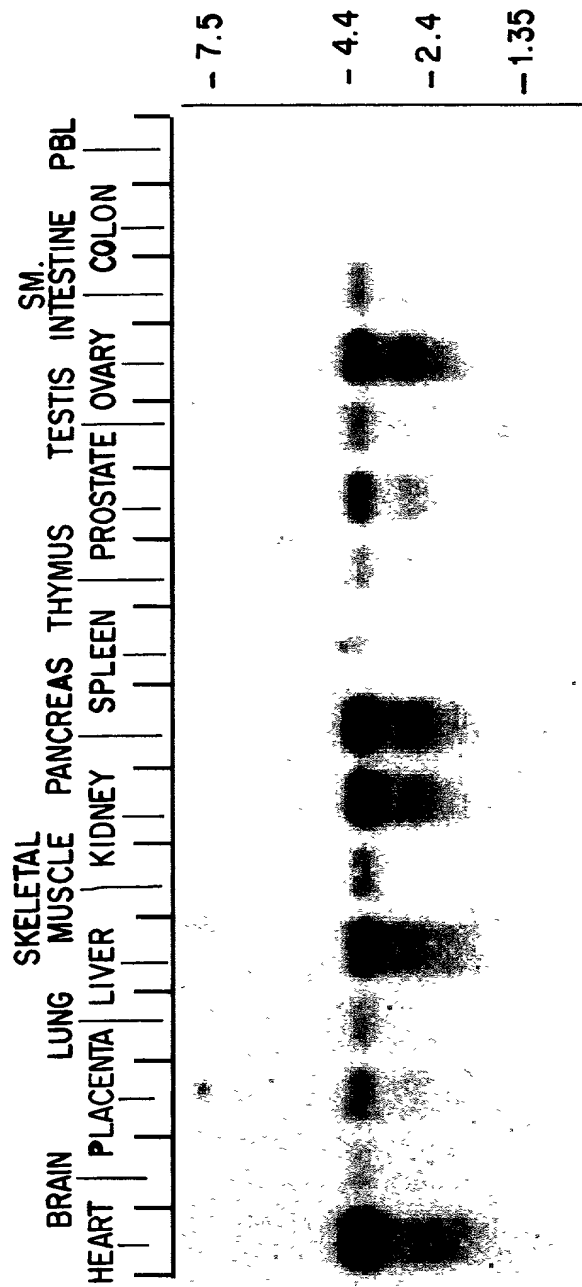
FIG. 9D

mPDGF-C CUB	ERVVTISGNGSIHSPKFFPHITYPRNMVLVWRLVAVDENVRI	85
hPDGF-C CUB	ERTITVSTNGSIHSPRFRFPHTYPRNTVLVWRLVAVENW	59
hBMP-1 CUB1	CGETLQDSTGNFSSPEYPPNGYSANNNCVWRISVTPGE-KI	360
hBMP-1 CUB2	CGGDVKKDYGNITQSPNYPPDDYRPSKVCIWRIOVSEGF-HV	473
hBMP-2 CUB3	CGGFLTKLNGSITTSPCGWPEXEPNKNCCIWLVAPIQY-RI	629
Neuropilin CUB1	GDTIKIEPCYLTSPGYPMSYHPSEKCEWLIQAIDPPYQRI	67
Neuropilin CUB2	CSQNYTTPSGVITKSPGCFPEEYPNSLCCYIVPA	195
mPDGF-c cub	QLTFDERDGLLED--PEDDOCKYDYPEVEVEE--PSDGSVL	120
hPDGF-C CUB	QLTFDERFGLLED--PEDDICKYDFVEVEE--PSDGTIL	93
hBMP-1 CUB1	ILNFTS-LDLYRSA-----LCWYDYDYVEVRDCPWAKAPLR	393
hBMP-1 CUB2	GLTFQS-FETIERND-----SCAYDYLEVRDGHSESTLI	506
hBMP-1 CUB3	SLQFDF-FETIEGND-----VCKYDFVEVRSGLTADSKLH	662
Neuropilin CUB1	MINFNPHFDLEDRD-----CKYDFVEVFDGENENGHFR	100
Neuropilin CUB2	ILEFES-FDLEPDSDNPPCCMFCRYDRHLHIWDGFPDVGPHI	224
mPDGF-C CUB	GRWCGSGTVPGKQTSKGNHIRIRFVSDEYFPSEPGFCIH	160
hPDGF-C CUB	GRWCGSGTVPGEQTTSKGNQIRIRFVSDEYFPSEPGFCIH	133
hBMP-1 CUB1	CRFCGS-KLPEPIVSTDSRLWVEFRSSSNWVGK-GFFAVY	431
hBMP-1 CUB2	GRYCGY-EKPPDDIKSTSSRLWLKFVSDGSIINKA-GFAVNY	544
hBMP-1 CUB3	GKFCGS-EKPEVITTSQYNNMRVEFXSDNTVSKK-GFKAHF	700
Neuropilin CUB1	GKFCGK-IAPPPVSSTGPFLLIKFVSDYETKGA-GFSIRY	138
Neuropilin CUB2	GKYCGQ-KTPGRIRSSSGILSMVFYTTDSAIKE-GFSANY	262
mPDGF-C CUM	SI	163
hPDGF-C CUB	MI	136
hBMP-1 CUB1	EAI	434
hBMP-1 CUB2	FK	546
hBMP-1 CUB3	FSE	703
Neuropilin CUB1	-ET	140
Neuropilin CUB2	SVL	265

FIG. 11



FIG. 12



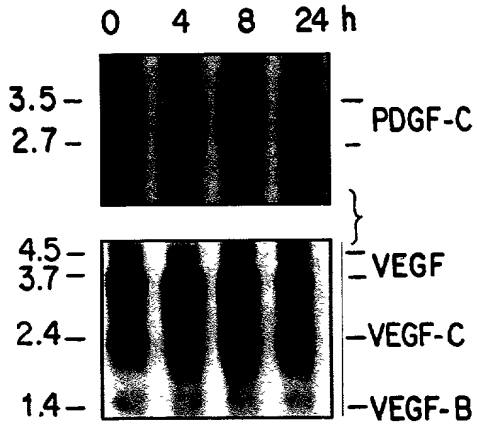


FIG. 13

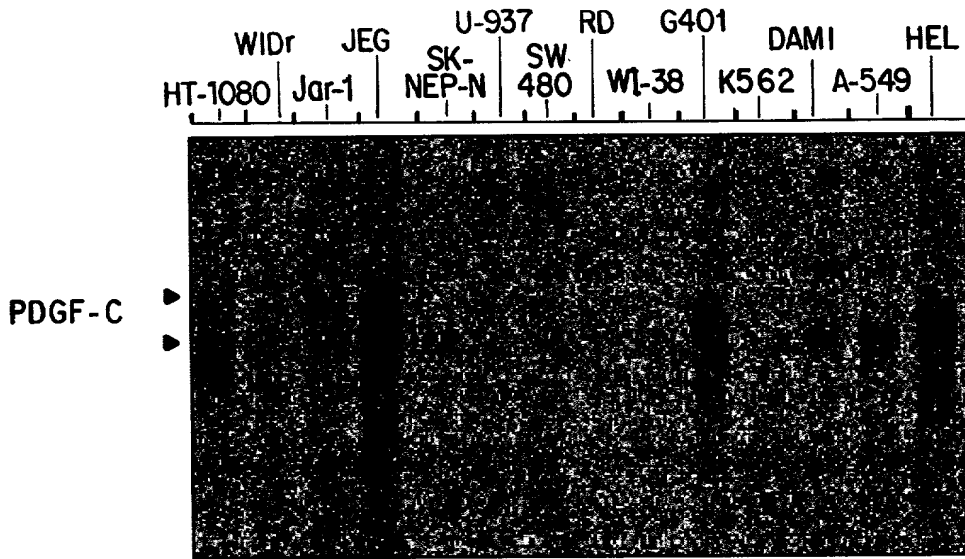


FIG. 14

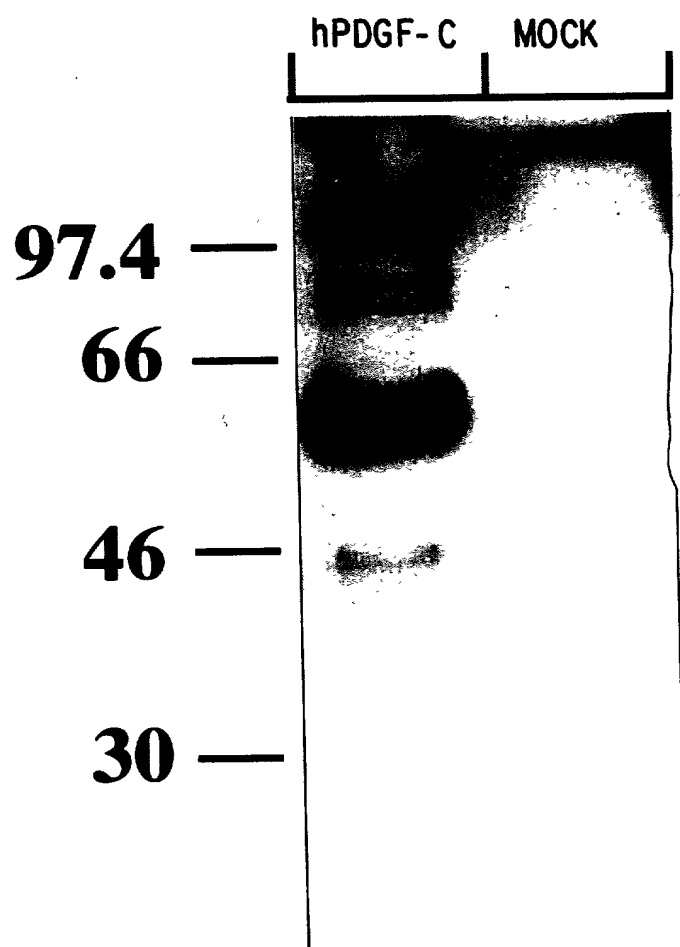


FIG. 15

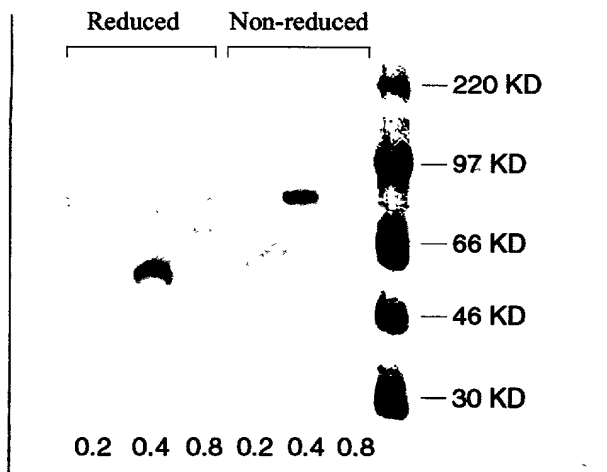


FIG. 16A

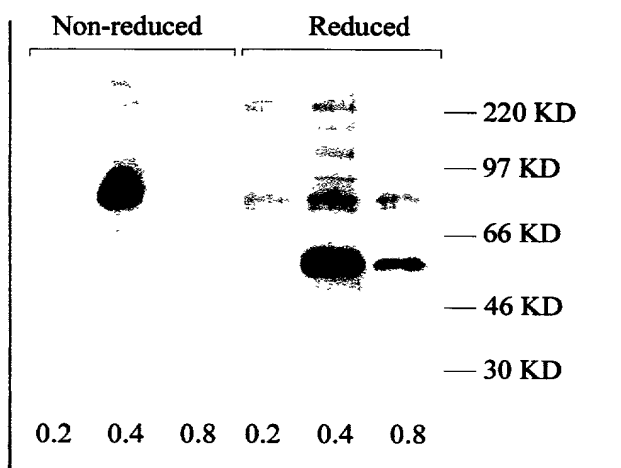


FIG. 16B

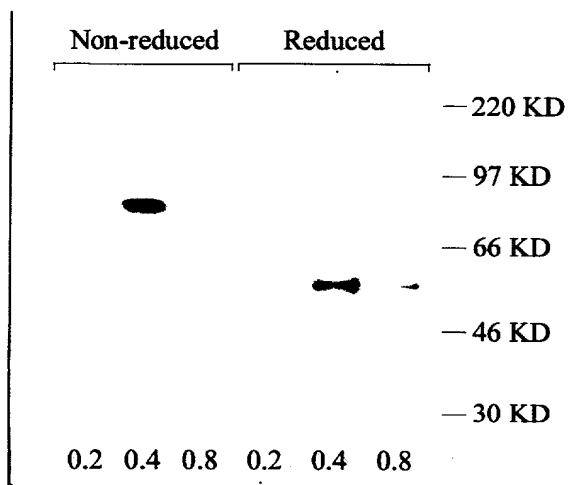


FIG. 16C

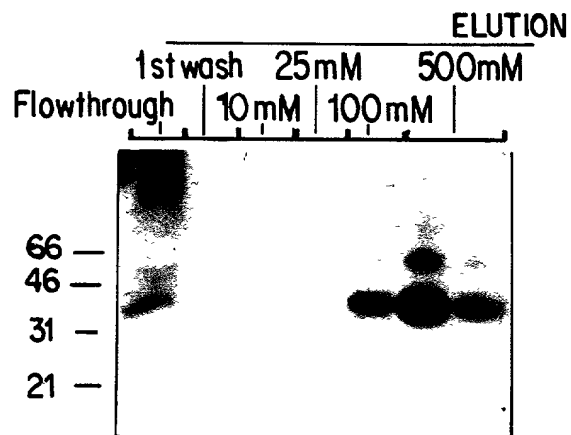


FIG. 17A

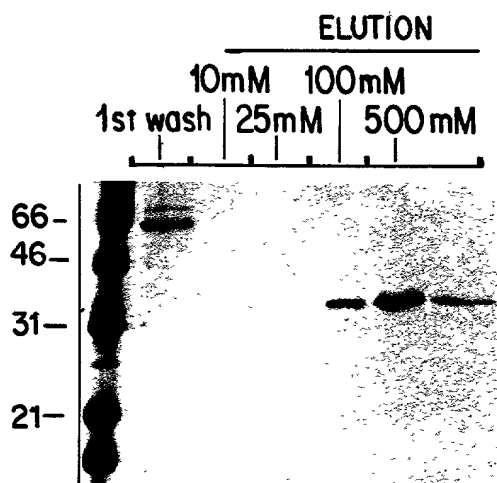


FIG. 17B

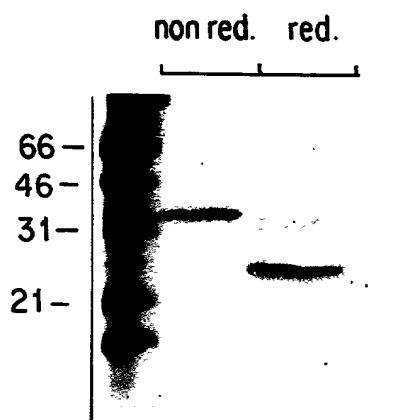


FIG. 17C

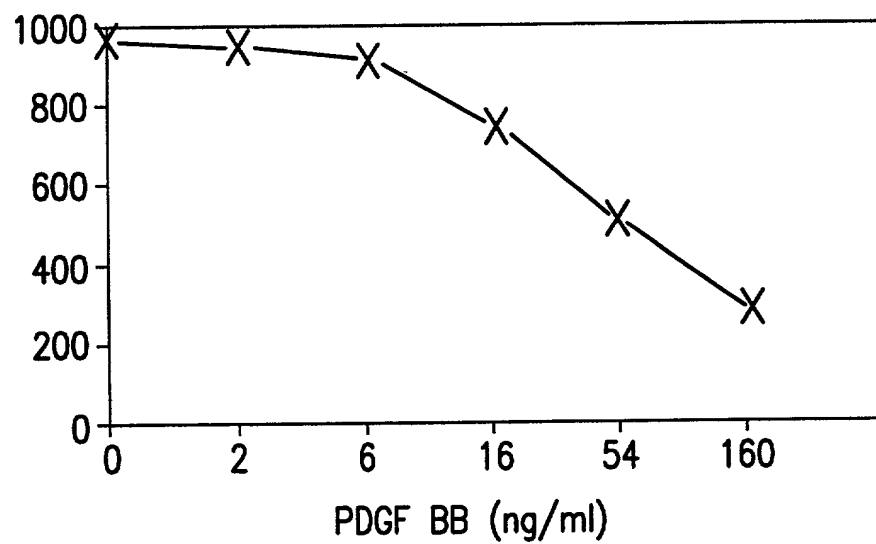


FIG. 18

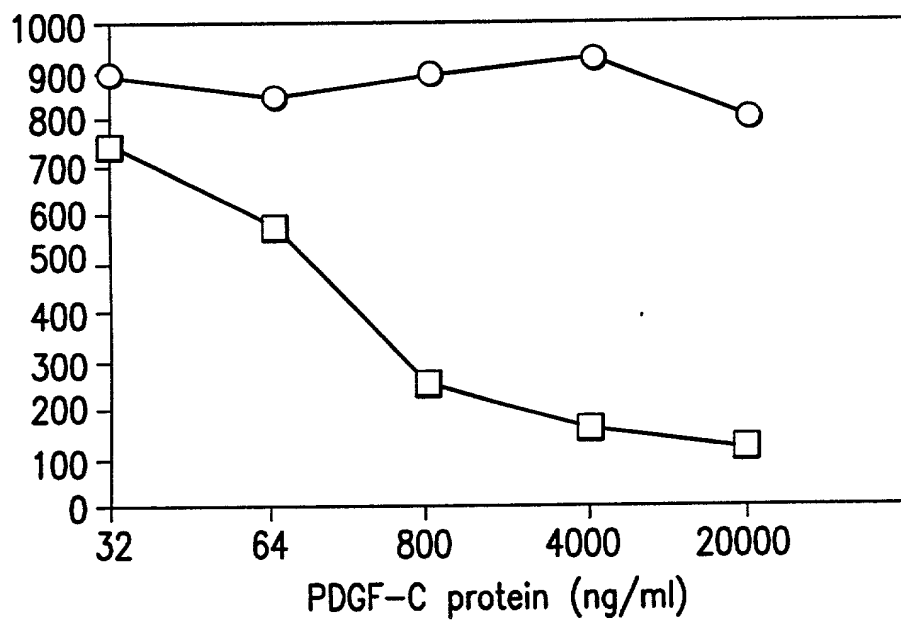
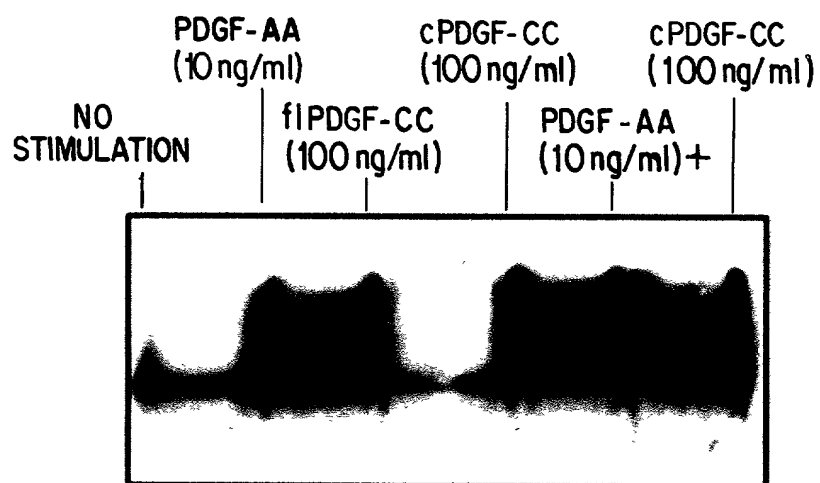


FIG. 19



IP : PDGF alpha-rec.  
IB: P-T yr

FIG . 20

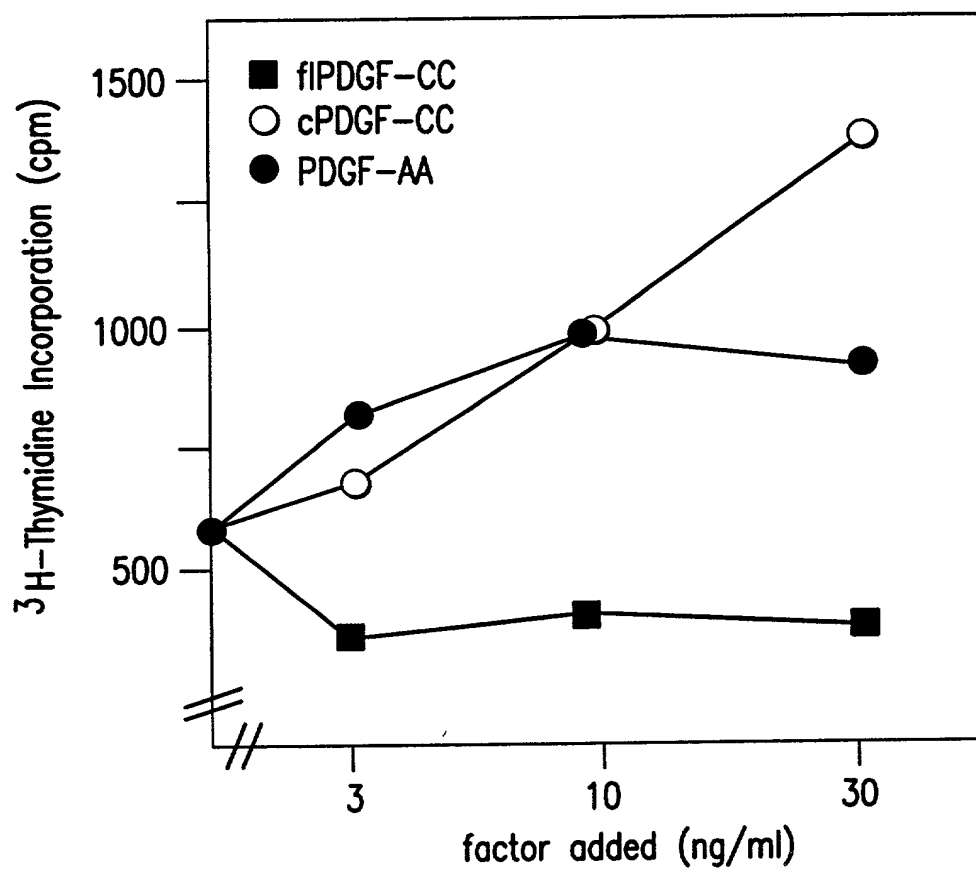


FIG. 21



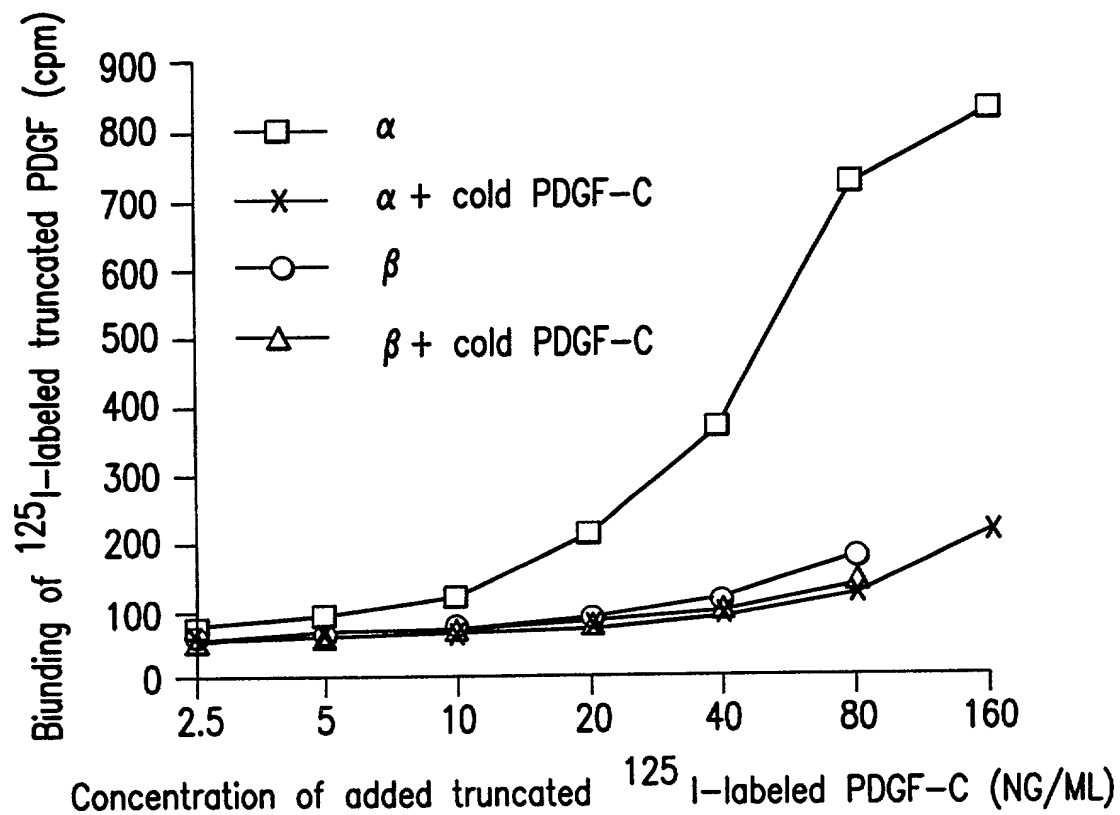
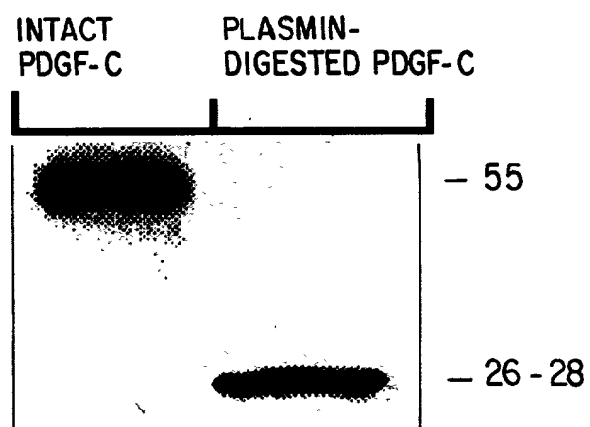


FIG. 22



**FIG. 23**

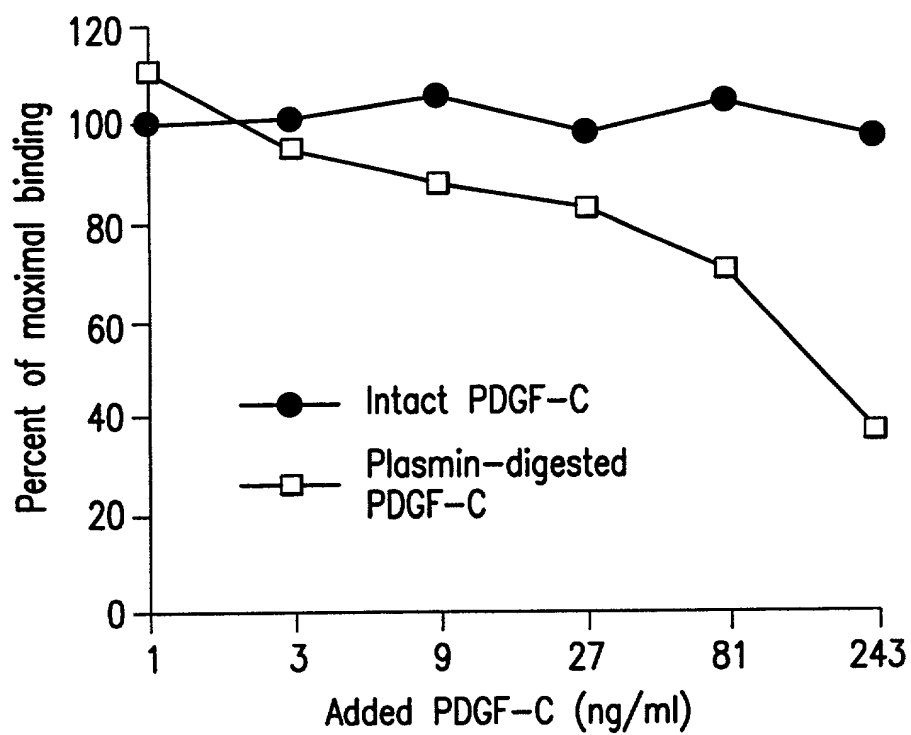


FIG. 24

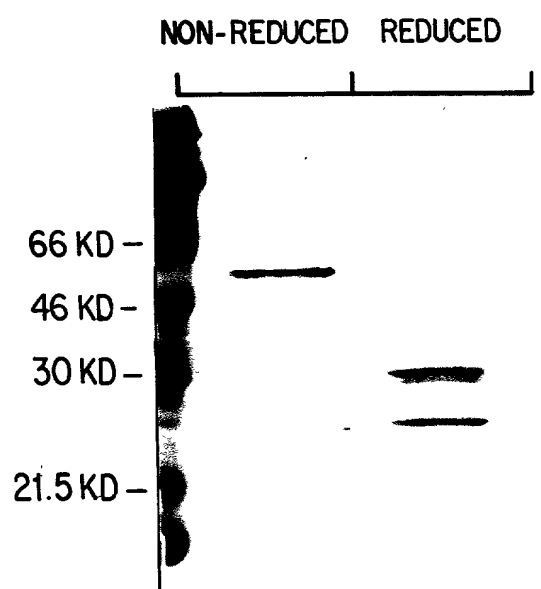


FIG. 25



FIG. 26A

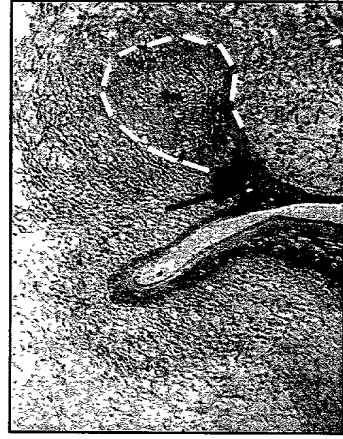


FIG. 26B



FIG. 26C



FIG. 26D



FIG. 26E

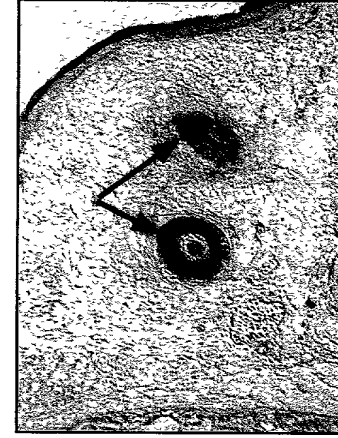


FIG. 26F



FIG. 26G

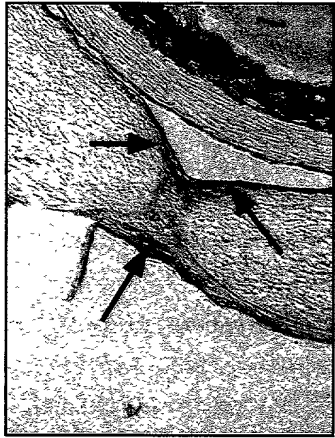


FIG. 26H



FIG. 26I

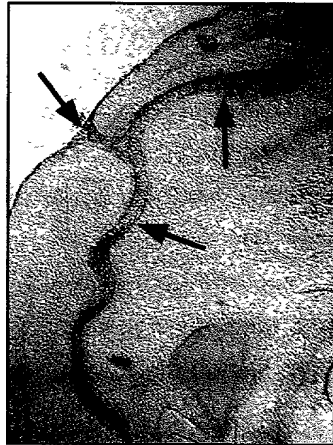


FIG. 26J

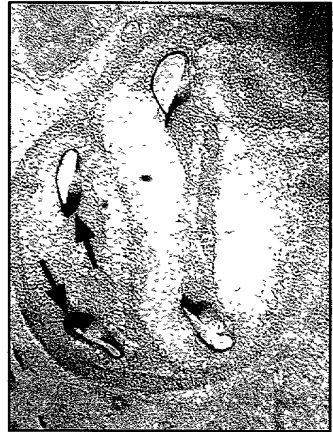


FIG. 26K

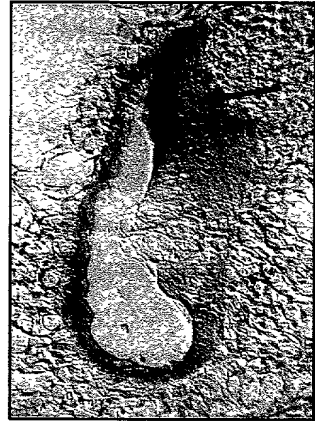


FIG. 26L

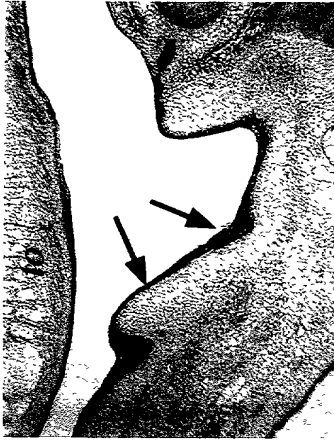


FIG. 26M



FIG. 26N



FIG. 26O



FIG. 26P

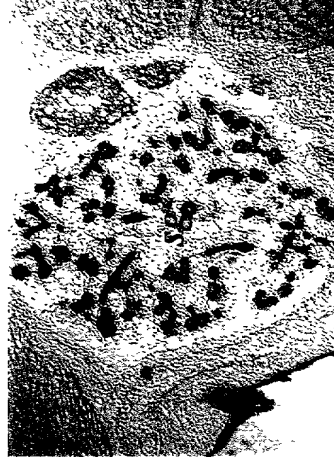


FIG. 26Q

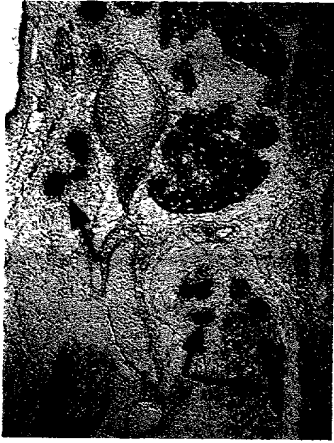


FIG. 26 R

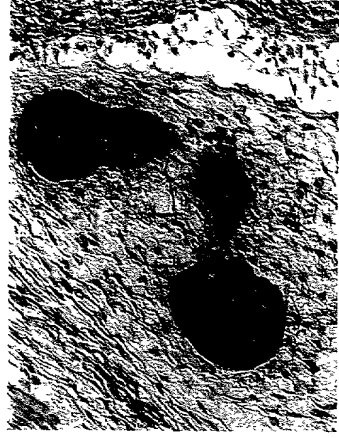


FIG. 26 S



FIG. 26 T

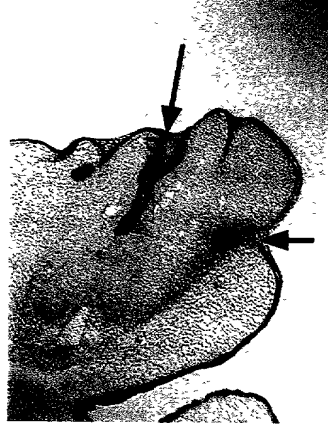


FIG. 26 U



FIG. 26 V





FIG. 27A



FIG. 27B



FIG. 27C



FIG. 27D

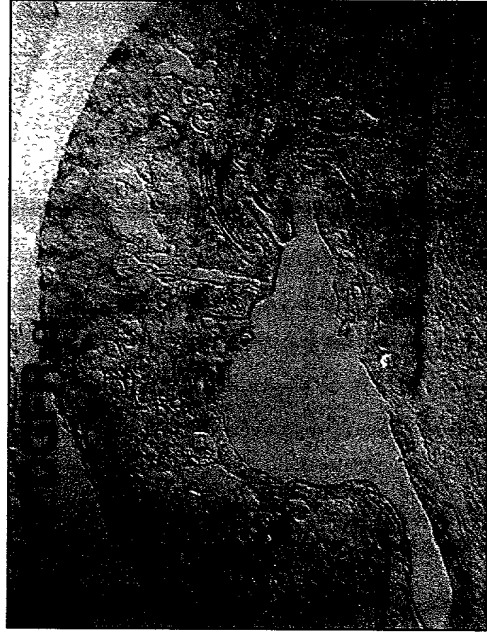


FIG.27E

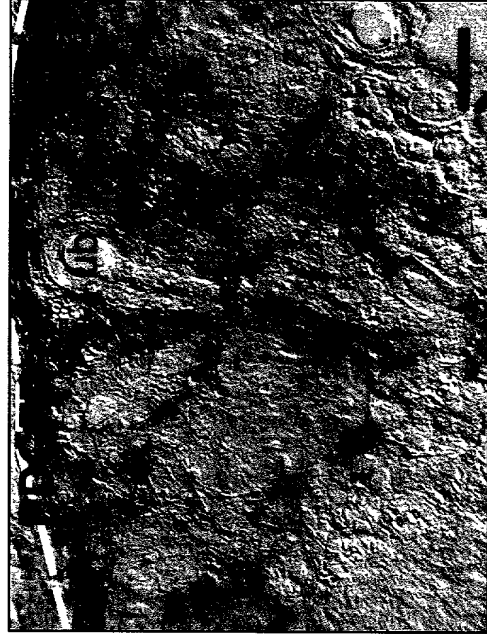


FIG. 27F



FIG. 28A



FIG. 28B

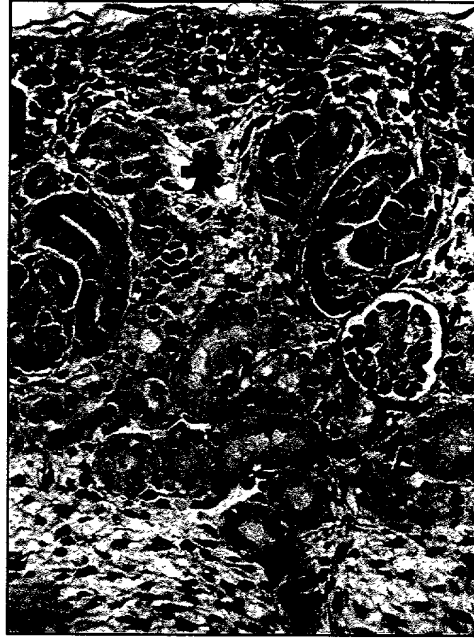


FIG. 28C

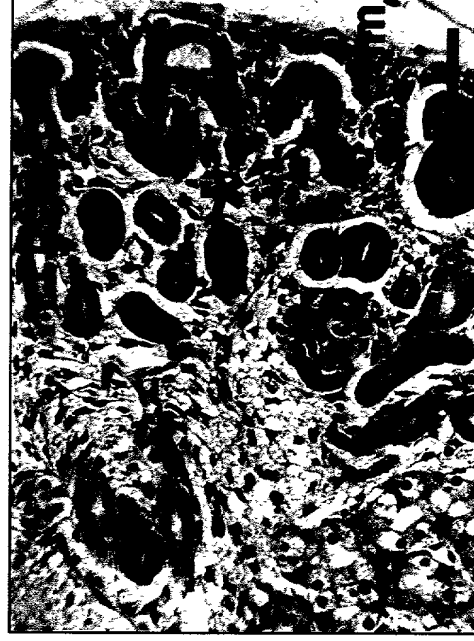


FIG. 28D



FIG. 28E

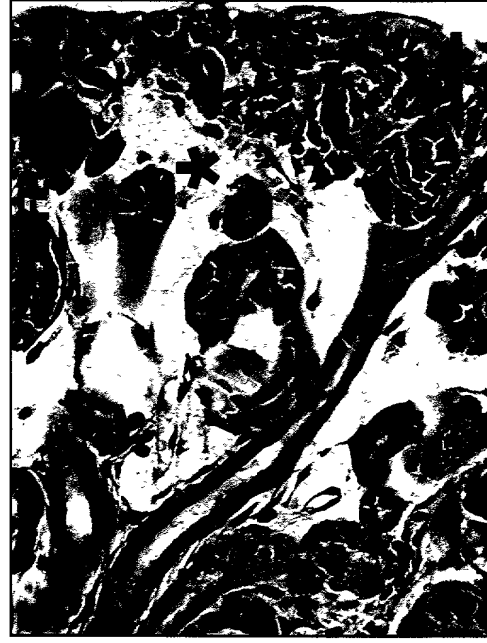


FIG. 28F

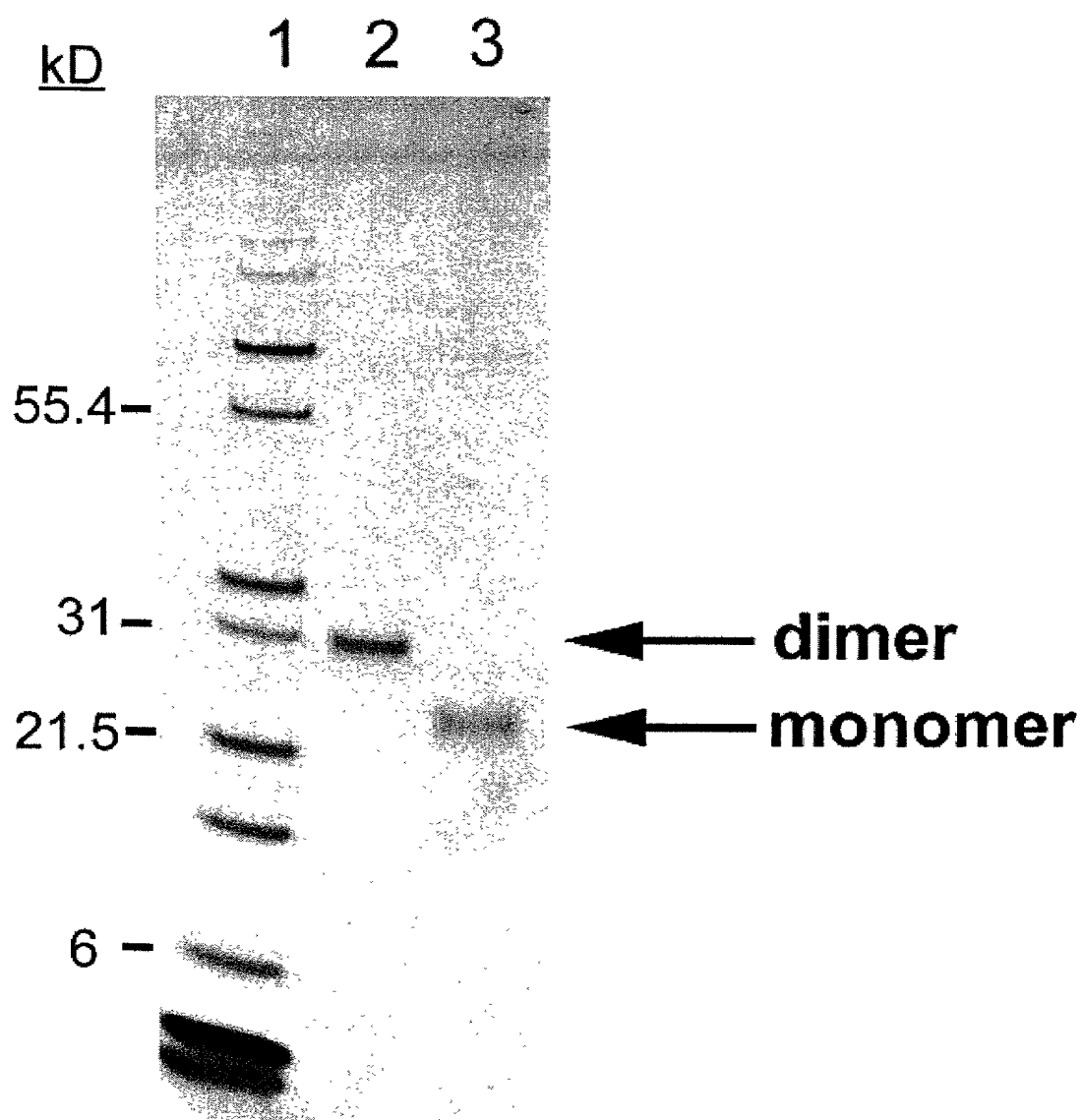


FIG. 29

FIG. 30A

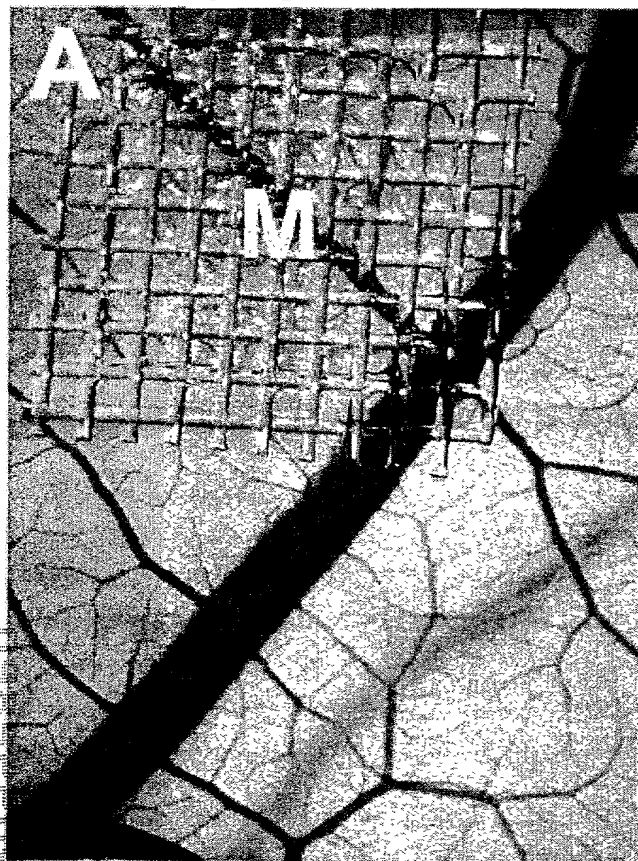


FIG. 30B

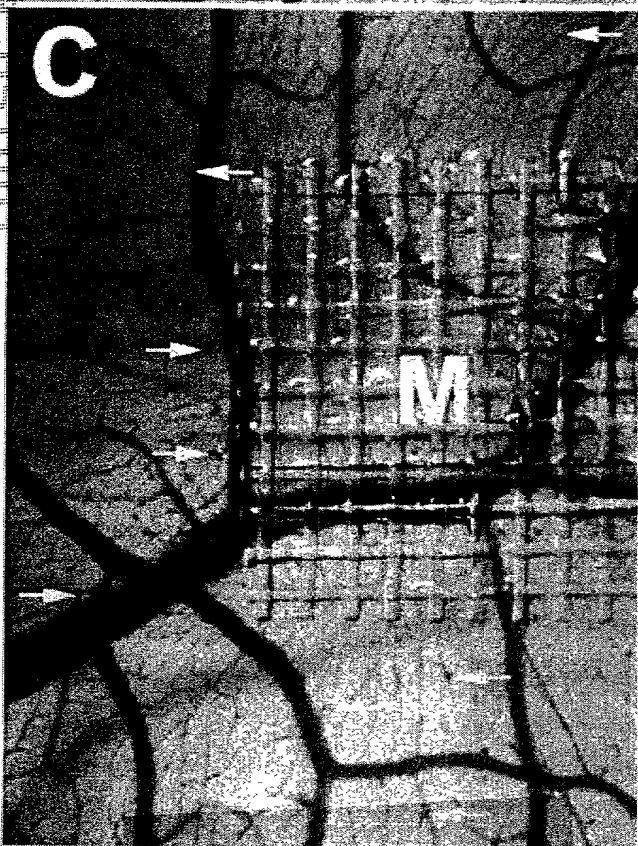
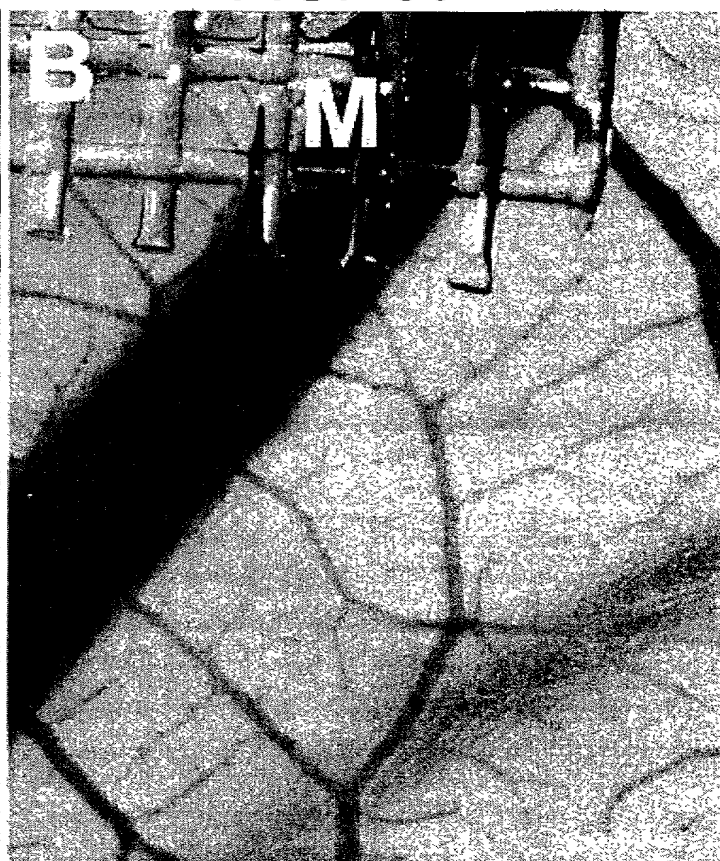


FIG. 30C

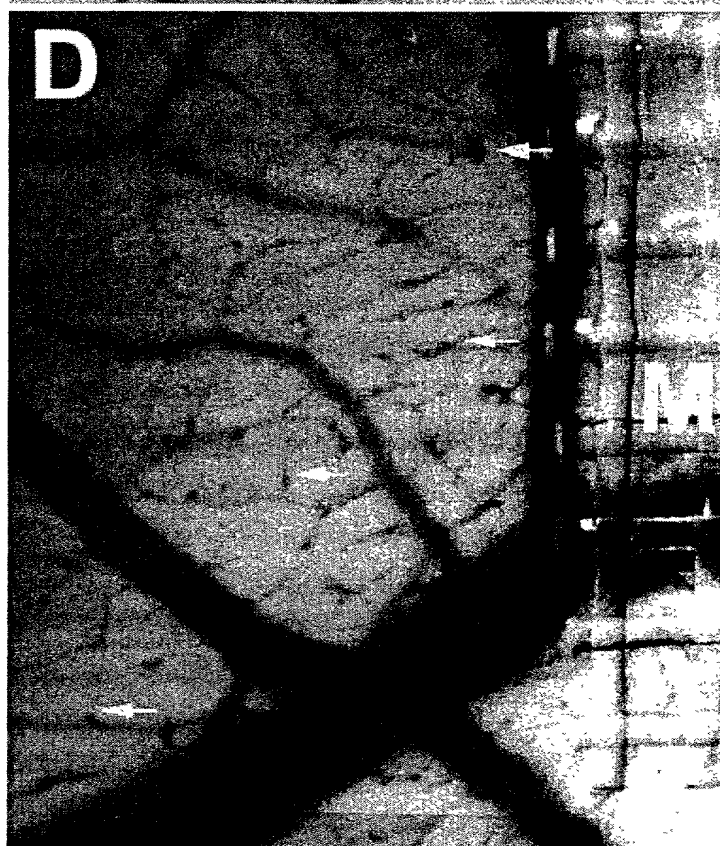


FIG. 30D

FIG. 31A

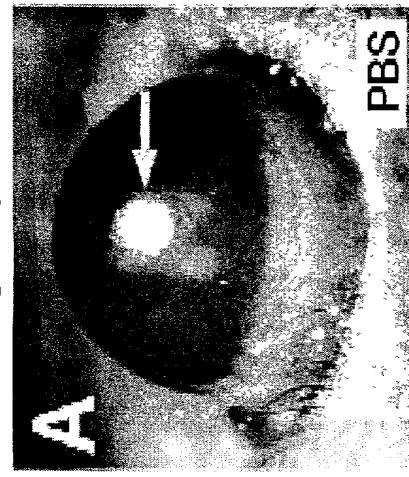


FIG. 31B

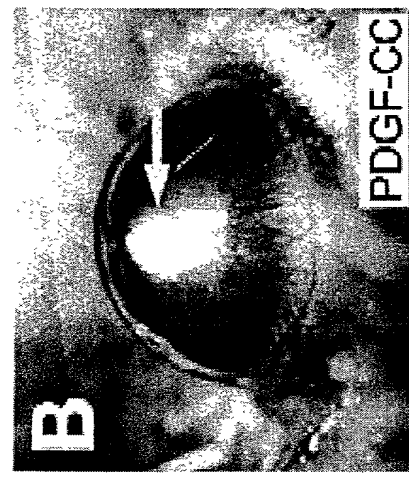


FIG. 31C

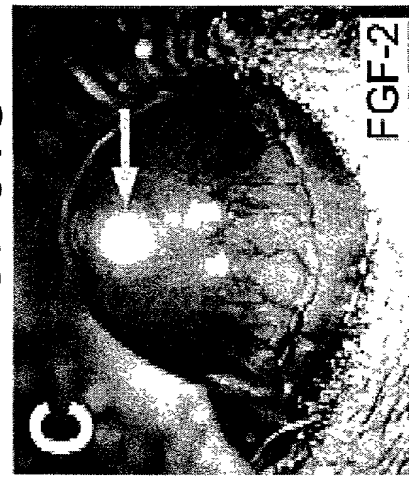


FIG. 31D

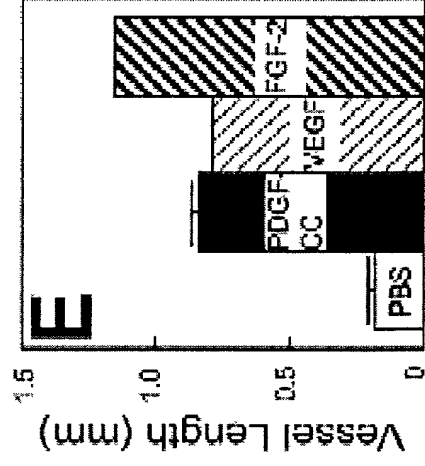
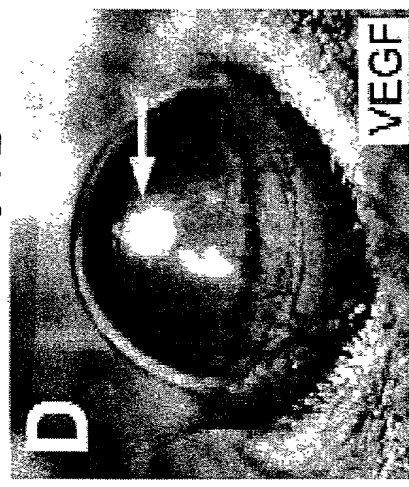


FIG. 31E

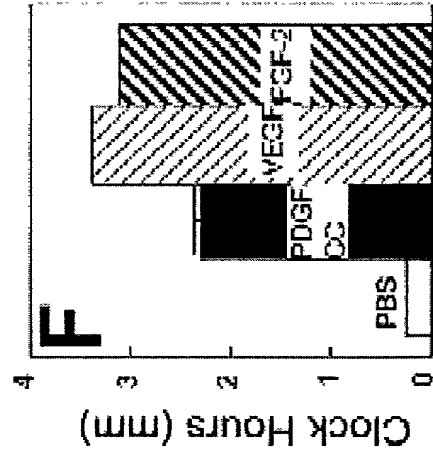


FIG. 31F

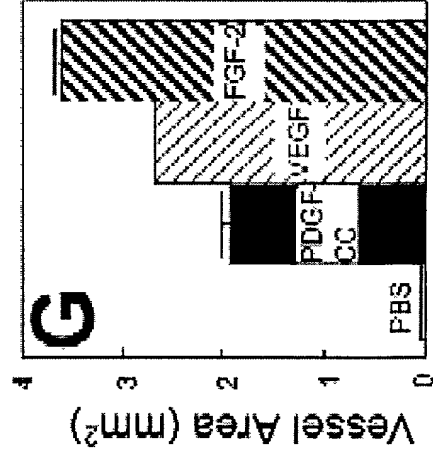


FIG. 31G



FIG. 32A

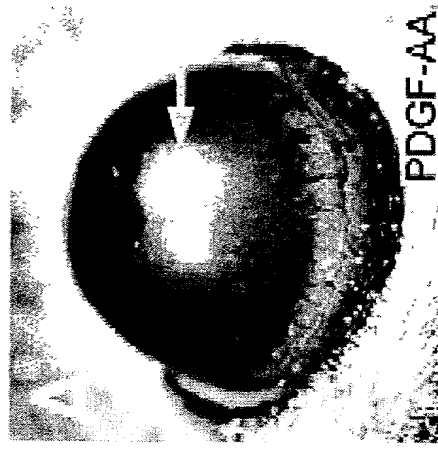


FIG. 32B

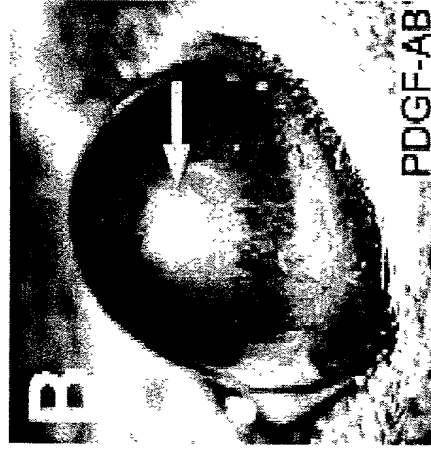


FIG. 32C

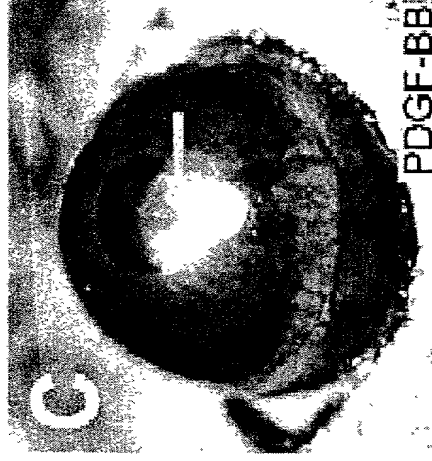


FIG. 32D

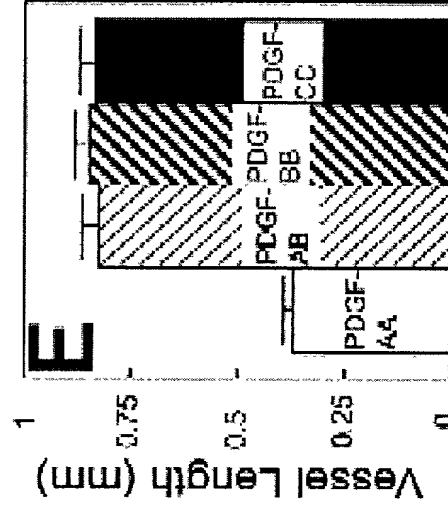
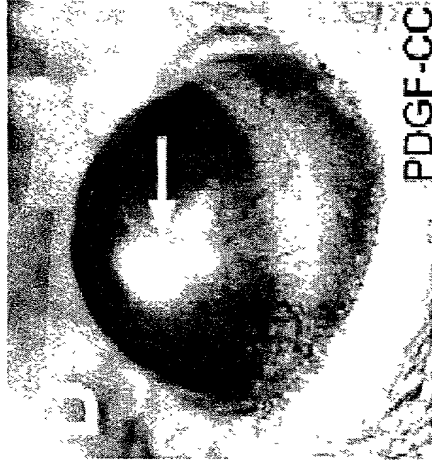


FIG. 32E

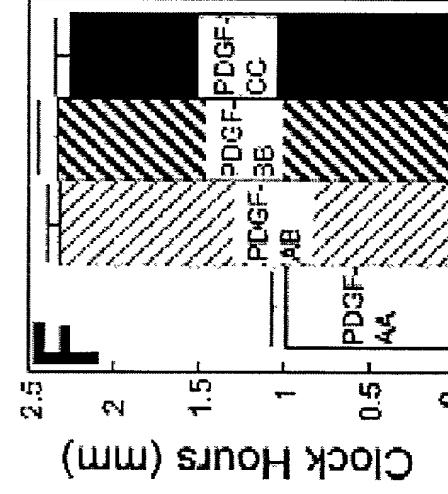


FIG. 32F

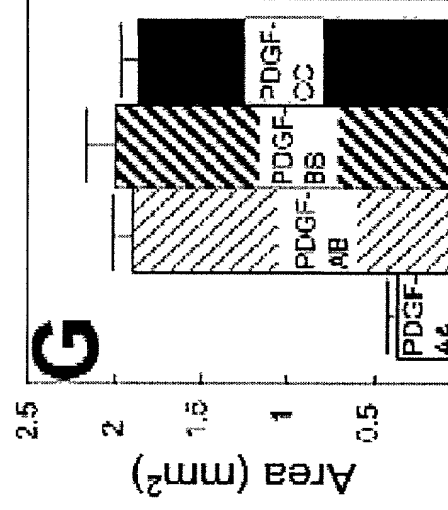


FIG. 32G



FIG. 33A

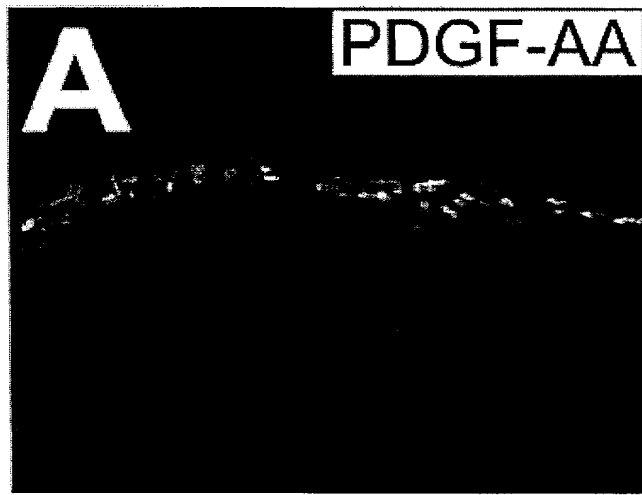


FIG. 33B

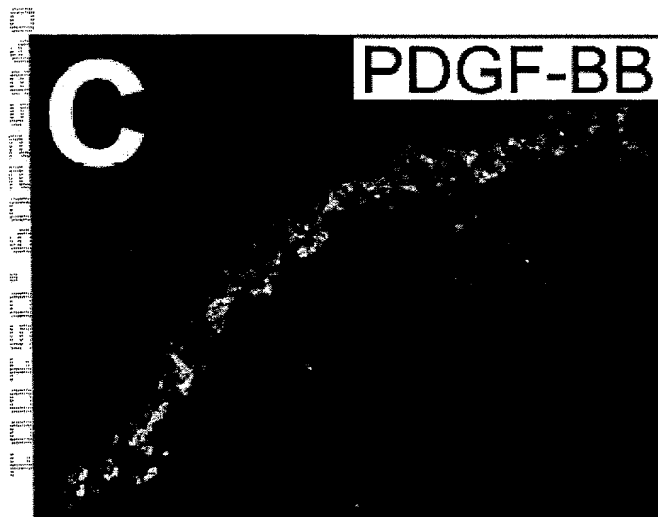


FIG. 33C

FIG. 33D

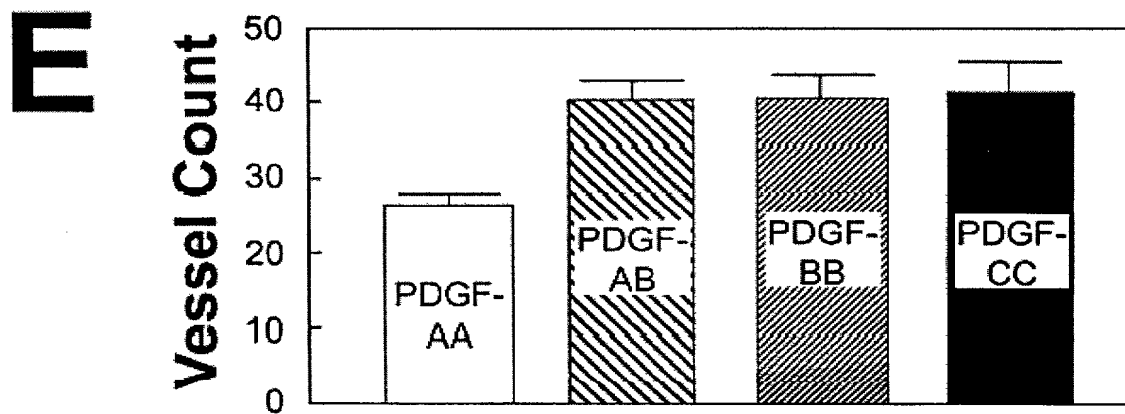


FIG. 33E